

Notice of Allowability	Application No.	Applicant(s)
	10/614,009	KEIJI TOMIZAWA
	Examiner Raquel Y. Gordon	Art Unit 2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to application filed 7/3/2003.
2. The allowed claim(s) is/are 1-10.
3. The drawings filed on 08 July 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

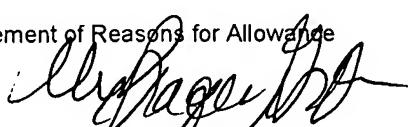
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/1/04 & 9/26/03
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.



Raquel Y. Gordon
Primary Examiner
Art Unit: 2853

Reasons for allowance

The following is a statement of reasons for allowance:

Upon consideration, the inclusion of the claimed ink jet record head, as claimed in the combination, is not found in the prior art. The primary reasons for allowance is the following claimed limitation is not taught by the prior art:

1. An ink jet record head comprising: a plurality of nozzles through which liquid flows; a supply chamber for supplying the liquid to each of the nozzles; and a plurality of discharge ports which are nozzle end openings for discharging a liquid droplet, wherein said nozzle has: a flow path composition substrate comprised of a bubbling chamber in which a bubble is generated by a discharge energy generating element for generating thermal energy for discharging the liquid droplet, discharge port portions including said discharge ports and communicating between said discharge ports and said bubbling chamber and a supply path for supplying the ink to the bubbling chamber; and an element substrate on which said discharge energy generating element is provided and joining said flow path composition substrate with the principal surface, and wherein said discharge port portion has: a first discharge port portion of an almost fixed diameter including said discharge port; and a second discharge port portion contiguous to the first discharge port portion and communicating in steps with said first discharge port portion and said bubbling chamber respectively, and a boundary portion between said second discharge port portion and said bubbling chamber and the boundary portion between said second discharge port portion and said first discharge port portion are continuously formed by a wall having a curvature.

The Examiner has performed hand extensive and exhaustive search resulting in the finding of no prior art disproving novelty or nonobviousness of the instant invention. Further, the Examiner has studied the references indicated on IDSs filed 9/26/2003 and 6/1/2004 but deems none of the references teaches the inventive features of the instant claims.

Since the prior art does not teach or suggest the claimed invention, the independent claim is deemed allowed. Further, the claims dependent claims are allowed since they depend from dependant base claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Raquel Y. Gordon, whose telephone number is (571) 272-2145. The Examiner can normally be reached on M Tu Th and F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. A fax number is available upon request.

Any inquiry of a general nature or relating to the status of this application or proceeding may be directed to the Examiner or Supervisor.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2853

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Raquel Y. Gordon
Primary Examiner
Art Unit 2853
December 26, 2004